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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,432	03/09/2004	Michael E. Gamache	0003-0019	1825
75	90 03/08/2005		EXAMINER	
Timothy A. Jo			BONCK, RODNEY H	
	ulding & Huber, LLP			
City Place II			ART UNIT	PAPER NUMBER
185 Asylum Str	eet		3681	
Hartford, CT	06103		DATE MAILED: 03/08/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Continue Continue
Examiner Rodney H. Bonck
Rodney H. Bonck 3881 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Betarshore of time may be variable under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled effects SIX (s) MONTHS from the making date of this communication. If the period for reply is specified above, the maximum statutory period will expire SIX (s) MONTHS from the making date of this communication. If the period for reply is specified above, the maximum statutory period will expire SIX (s) MONTHS from the making date of this communication. Failure to reply within the set or exherted period core play with; by statute, exame the application to become ABANCONEO (35 L35.) \$1330. seamed patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 09 March 2004. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5□ Claim(s) is/are allowed. 5□ Claim(s) is/are allowed. 6□ Claim(s) is/are allowed. 6□ Claim(s) is/are allowed. 7□ □ Claim(s) is/are objected to by the Examiner. 10□ The specification is objected to by the Examiner. 2p) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 1.□ Certifie
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 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Other:

Application/Control Number: 10/796,432

Art Unit: 3681

DETAILED ACTION

The following is a first action on the merits of application Serial No.10/796,432, filed March 9, 2004.

Specification

The abstract of the disclosure is objected to because it includes legal phraseology, *i.e.*, "means". Correction is required. See MPEP § 608.01(b).

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In lines 6-7 of claim 8, "the release cam divots of the

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input shaft" are recited without proper antecedent basis. It appears that, in line 2 of claim 8, "locking cam divot" should be – release cam divot --. This would provide basis for the language in lines 6-7. Claims 9-13 depend from claim 8 and thus incorporate the same deficiency.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Olchawa('443). The Olchawa device is a one-way, bi-directional clutch comprising an outer casing 20, an input shaft 11 having a flange 16 with release cam means 160, an output shaft 14 having a flange with locking cam means 140, and a brake assembly with release cam means 152, locking cam means 151, and brake pads 38. The release cam means move the brake assembly to the release position when sufficient torque is applied to the input shaft and the locking cam means move the brake assembly to the brake position when sufficient torque is applied to the output shaft.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olchawa('443). Olchawa does not specifically state that material is applied to the housing to alter the coefficient of friction; but an engaging plate is shown (Figs. 1 and 2) applied to the housing for engagement with the brake pads, and it would have been obvious to provide the plate of an increased coefficient of friction as compared to the housing itself, the motivation being to provide efficient braking action.

Claims 4, 5, 14, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olchawa('443) in view of either Paris('527) or Johnson('578).

Olchawa does not use the release and locking divots and interposed bearing for the release cam means and locking cam means as called for in these claims. Instead, Olchawa uses inclined ramp cam means. Both Paris and Johnson show one-way, bidirectional clutches with release and locking cam means, but they use cam means in the form of divots and interposed bearings. It would have been obvious to use this type cam means in Olchawa since the two cam types are recognized as equivalents in this art. Regarding claim 14, Olchawa shows the first and second biasing members at 32.

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Note that the cam means of Olchawa would inherently define a slip point at which brake slip would occur if a particular torque is applied to the output relative to torque applied to the input.

Claims 4-11, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olchawa('443) in view of Twickler('733). Olchawa does not use the release and locking divots and interposed bearing for the release cam means and locking cam means as called for in these claims. Instead, Olchawa uses inclined ramp cam means. Twickler discloses a torque-limiting, one-way, bi-directional clutch using cam means in the form of divots and interposed bearings. It would have been obvious to use this type cam means in Olchawa since the two cam types are recognized as equivalents in this art. Note that the divots in Twickler include the claimed two shallow portions surrounding a deep portion. Regarding claim 14, Olchawa shows the first and second biasing members at 32. Note that the cam means of Olchawa would inherently define a slip point at which brake slip would occur if a particular torque is applied to the output relative to torque applied to the input.

Allowable Subject Matter

Claims 12 and 13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Miller('477) is cited to show tracks 76 connecting the deep parts of the cam means. Harvey(US 2003/0051950 A1) is cited to show friction material 30 added to housing 16. Trommer('363) and Allan et al.('458) show other one-way, bidirectional clutches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney H. Bonck whose telephone number is (703)-308-2904. The examiner can normally be reached on Monday-Friday 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (703)-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney H. Bonck Primary Examiner Art Unit 3681

rhb March 4, 2005